

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/DE2004/002797

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C22C49/11 C22C47/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C22C C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	PATENT ABSTRACTS OF JAPAN vol. 015, no. 112 (C-0815), 18 March 1991 (1991-03-18) & JP 03 002338 A (SUMITOMO ELECTRIC IND LTD), 8 January 1991 (1991-01-08) abstract	1-5
X	US 4 915 908 A (NAGLE ET AL) 10 April 1990 (1990-04-10) column 7, lines 53-68 - column 8, lines 1-25; claims 1-23 column 9, lines 1-5 - column 9, lines 55-68 column 13, lines 60-65 - column 14, lines 5-15  ----- -/--	1-5

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

21 June 2005

Date of mailing of the international search report

30/06/2005

Name and mailing address of the ISA

European Patent Office, P B 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Rischard, M

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/DE2004/002797

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 876 659 A (YASUTOMI ET AL) 2 March 1999 (1999-03-02) the whole document -----	1-5
A	DE 43 24 755 C1 (MTU MOTOREN- UND TURBINEN-UNION MUENCHEN GMBH, 80995 MUENCHEN, DE) 22 September 1994 (1994-09-22) the whole document -----	6-10

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DE2004/002797

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 03002338	A	08-01-1991	NONE	
US 4915908	A	10-04-1990	BR 8604662 A	10-05-1988
			CA 1290597 C	15-10-1991
			AU 8105287 A	01-06-1988
			NO 882964 A	01-07-1988
			WO 8803574 A1	19-05-1988
			AU 591166 B2	30-11-1989
			AU 6181686 A	25-02-1988
			EP 0258510 A1	09-03-1988
			JP 63083239 A	13-04-1988
			US 4916030 A	10-04-1990
			US 4916029 A	10-04-1990
			US 4915902 A	10-04-1990
			US 4915903 A	10-04-1990
			US 4915904 A	10-04-1990
			US 4915905 A	10-04-1990
			US 5059490 A	22-10-1991
			US 5015534 A	14-05-1991
			US 4921531 A	01-05-1990
			US 4917964 A	17-04-1990
			US 4985202 A	15-01-1991
			US 5093148 A	03-03-1992
			US 5217816 A	08-06-1993
			US 4738389 A	19-04-1988
			US 4836982 A	06-06-1989
			US 4774052 A	27-09-1988
			US 4751048 A	14-06-1988
			US 4710348 A	01-12-1987
US 5876659	A	02-03-1999	CN 1102632 A	17-05-1995
			JP 7223876 A	22-08-1995
DE 4324755	C1	22-09-1994	FR 2707902 A1	27-01-1995
			GB 2280909 A ,B	15-02-1995
			US 5400505 A	28-03-1995